

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. Contract ID Code Fixed-Price Redetermination		Page 1 Of 11	
2. Amendment/Modification No. P00010		3. Effective Date 2001MAR12		4. Requisition/Purchase Req No. SEE SCHEDULE		5. Project No. (If applicable)	
6. Issued By TACOM AMSTA-LC-AL-P SUE STONER (810)574-8359 WARREN, MICHIGAN 48397-5000 HTTP://CONTRACTING.TACOM.ARMY.MIL EMAIL: STONERS@TACOM.ARMY.MIL		Code W56HZV		7. Administered By (If other than Item 6) DCM BIRMINGHAM BURGER PHILLIPS CENTER 1910 THIRD AVE. NORTH, RM 201 BIRMINGHAM, AL 35203-2376		Code S0101A	
				SCD C PAS NONE ADP PT HQ0338			
8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code) METRIC SYSTEMS CORPORATION 645 ANCHORS STREET FORT WALTON BEACH 32548-0000 TYPE BUSINESS: Large Business Performing in U.S.				<input type="checkbox"/>		9A. Amendment Of Solicitation No.	
						9B. Dated (See Item 11)	
				<input checked="" type="checkbox"/>		10A. Modification Of Contract/Order No. DAAE07-00-C-M010	
						10B. Dated (See Item 13) 2000MAR20	
Code 12339		Facility Code					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendments: (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. Accounting And Appropriation Data (If required) SEE SECTION G							
13. THIS ITEM ONLY APPLIES TO MODIFICATIONS OF CONTRACTS/ORDERS It Modifies The Contract/Order No. As Described In Item 14.							
KIND MOD CODE: C							
<input type="checkbox"/> A. This Change Order is Issued Pursuant To: The Contract/Order No. In Item 10A.		The Changes Set Forth In Item 14 Are Made In					
<input type="checkbox"/> B. The Above Numbered Contract/Order Is Modified To Reflect The Administrative Changes (such as changes in paying office, appropriation data, etc.) Set Forth In Item 14, Pursuant To The Authority of FAR 43.103(b).							
<input checked="" type="checkbox"/> C. This Supplemental Agreement Is Entered Into Pursuant To Authority Of: Mutual Agreement of the Parties							
<input type="checkbox"/> D. Other (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return _____ copies to the Issuing Office.							
14. Description Of Amendment/Modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) SEE SECOND PAGE FOR DESCRIPTION							
Contract Expiration Date: 2007DEC31							
Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. Name And Title Of Signer (Type or print)				16A. Name And Title Of Contracting Officer (Type or print) MICHAEL T. FINNELL FINNELLM@TACOM.ARMY.MIL (810)574-8361			
15B. Contractor/Offeror _____ (Signature of person authorized to sign)		15C. Date Signed		16B. United States Of America By _____ (Signature of Contracting Officer)		16C. Date Signed	
NSN 7540-01-152-8070 PREVIOUS EDITIONS UNUSABLE				30-105-02		STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243	

CONTINUATION SHEET	Reference No. of Document Being Continued PIIN/SIIN DAAE07-00-C-M010 MOD/AMD P00010	Page 2 of 11
Name of Offeror or Contractor: METRIC SYSTEMS CORPORATION		

SECTION A - SUPPLEMENTAL INFORMATION
MODIFICATION P00010

PREVIOUS CONTRACT AMOUNT:	\$ 4,493,168
AMOUNT OF THIS MODIFICATION:	\$ 1,841,923
NEW CONTRACT AMOUNT:	\$ 6,335,091

Modification P00010 is issued to incorporate the following changes into the contract:

1. The purpose of Modification P00010 is to revise the Technical Manual (TM) requirement to include Interactive Electronic Technical Manuals (IETMs). As a result of this action the contract is modified as follows:
 - a. CLIN 1003AB is reduced by \$15,242 to delete the cost of the original Technical Manual scope under Phase I. That scope of work is deleted in its entirety and replaced with the scope for IETMs which is funded under new CLIN 1012AA. This action reduces CLIN 1003AB from \$16,807 to \$1,565.
 - b. New CLIN 1012AA is added to the contract for the revised Phase I TM/IETM requirement in the amount of \$1,857,165.
 - c. The amount shown under CLIN 2007 is reduced by \$1,599 to delete the original Phase II cost of Technical Manuals. That scope of work is deleted in its entirety and replaced with the scope for IETMs which is now funded under new CLIN 2008AA. This action reduces CLIN 2007 from \$1,399,996 to \$1,398,397. This reduction does not affect the new contract amount as CLIN 2007 is an option and is not funded at this time.
 - d. New CLIN 2008AA is added as an option to the contract for the Phase II TM/IETMs. The amount of that option is \$45,662 but is unfunded and does not affect the new contract amount.
 - e. Section G is revised to incorporate the appropriation data for the above requirements.
 - f. Attachment 4 of the contract, Technical Manual Contract Requirements (not dated), is deleted in its entirety and replaced by new Attachment 4, dated 26 Jan 01, attached.
2. This modification also incorporates Performance-Based Payments for the purposes of billing on CLIN 1012AA, Phase I IETMs. As a result of this action, the contract is modified as follows:
 - a. The Special Provision "Administration of Performance-Based Payments" is added to the Section G.
 - b. The clause "Performance-Based Payments" (FAR 52.232-32)(May 1997) is added to Section H.
 - c. "Progress Payments" (FAR 53.232-16) (Jul 1997) and "DoD Progress Payment Rates"(DFARS 252.232-7004) (Feb 96) are deleted from Section H
 - d. Attachment 14, "Metric Systems Performance-Based Payments CLIN 1012AA" is added to the contract.
3. This modification also corrects the shipping address for 4 each Turret Covers under CLIN 1011AA. As a result of this action Section B, CLIN 1011AA is revised.
4. As a result of the change described above, the total amount of the contract is hereby increased by \$1,841,923 All terms and conditions of the contract, other than those described above, remained unchanged. The parties hereby agree that all claims to further consideration for the changes described above are hereby waived and discharged.

*** END OF NARRATIVE A 010 ***

Name of Offeror or Contractor: METRIC SYSTEMS CORPORATION

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1003AB	<p>SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS</p> <p><u>INTEGRATED LOGISTICS SUPPORT</u></p> <p>NOUN: ILS SCOPE CHANGES SECURITY CLASS: Unclassified CLIN CONTRACT TYPE: Cost-Plus-Fixed-Fee PRON: T112T5134K PRON AMD: 01 ACRN: AD</p> <p>CLIN 1003AB is incorporated into the contract as an extension of CLIN 1003AA. Payment shall not be made under CLIN 1003AB until all funds under CLIN 1003AA have been exhausted.</p> <p>CLIN 1003AB is a Cost-Plus-Fixed Fee CLIN.</p> <p>Cost \$ 1,407 Fee \$ 140 COM \$ 18 Total Cost \$ 1,565</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u> DLVR SCH PERF COMPL <u>REL CD</u> <u>QUANTITY</u> <u>DATE</u> 001 0 30-MAR-2001</p> <p>\$ 1,565.00</p>				\$ 1,565.00

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Name of Offeror or Contractor: METRIC SYSTEMS CORPORATION

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1011AA	<p><u>TURRET COVERS FOR EARLY USER ASSESSMENT</u></p> <p>NSN: 0000-00-000-0000 NOUN: PROTOTYPE TURRET COVERS SECURITY CLASS: Unclassified CLIN CONTRACT TYPE: Cost-Plus-Fixed-Fee PRON: T112T5154K PRON AMD: 03 ACRN: AC CUSTOMER ORDER NO: M9545001MPR1AD3</p> <p><u>Packaging and Marking</u></p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u> DOC SUPPL <u>REL CD MILSTRIP ADDR SIG CD MARK FOR TP CD</u> 001 W56HZV1355H001 M20450 M 2 <u>DEL REL CD QUANTITY DEL DATE</u> 001 12 30-MAR-2001</p> <p>FOB POINT: Destination</p> <p>SHIP TO: <u>PARCEL POST ADDRESS</u> (M20450) COMMANDING OFFICER 1ST LIGHT ARMORED RECON BN BOX 555564 CAMP PENDLETON_CA 92055-5564</p> <p>DOC SUPPL <u>REL CD MILSTRIP ADDR SIG CD MARK FOR TP CD</u> 003 W56HZV1025H001 M99933 M 2 <u>DEL REL CD QUANTITY DEL DATE</u> 001 4 15-MAR-2001</p> <p>FOB POINT: Destination</p> <p>SHIP TO: <u>PARCEL POST ADDRESS</u> (M99933) FLEET SUPPORT CENTER SUPPLY OPERATIONS BRANCH CODE 877 814 RADFORD BLVD ALBANY GA 31704-1128</p> <p>The Contractor shall ship the 4 covers to the following address at Albany, GA rather than Code 877 address indicated above under "PARCEL POST."</p> <p>The correct SHIP TO is: COMMANDER (M99933) MARINE LOGISTICS BASE SET ASSEMBLY BLDG, 1241 ALBANY, GA 31704-5000 MARK FOR: PROJECT CODE P4U/Attn: Missy or Chris</p> <p>(End of narrative F001)</p>	20	EA	\$ ** N/A **	\$ 37,760.00

Name of Offeror or Contractor: METRIC SYSTEMS CORPORATION

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT					
1012	<u>Supplies or Services and Prices/Costs</u>									
1012AA	<u>INTERACTIVE ELECTRONIC TECH MANUALS (IETMS)</u> NOUN: IETM PHASE I SECURITY CLASS: Unclassified CLIN CONTRACT TYPE: Firm-Fixed-Price PRON: T112T5054K PRON AMD: 03 ACRN: AC CUSTOMER ORDER NO: M9545001MPR1AD3 The Contractor shall provide Phase I IETMs IAW, Attachment 4, TMCR, dated 26 Jan 01. See Attachment 14, "METRIC SYSTEMS PERFORMANCE-BASED PAYMENTS, CLIN 1012AA" (End of narrative B001) <u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination <u>Deliveries or Performance</u> DLVR SCH PERF COMPL <table><tr><td><u>REL CD</u></td><td><u>QUANTITY</u></td><td><u>DATE</u></td></tr><tr><td>001</td><td>0</td><td>30-MAR-2002</td></tr></table> \$ 1,857,165.00	<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>	001	0	30-MAR-2002			\$ 1,857,165.00
<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>								
001	0	30-MAR-2002								

Name of Offeror or Contractor: METRIC SYSTEMS CORPORATION

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
2007	<p><u>Supplies or Services and Prices/Costs</u></p> <p><u>OPTION FOR PHASE II ILS</u></p> <p>SECURITY CLASS: Unclassified</p> <p>CLIN 2007 will ultimately result in a Firm Fixed Price CLIN, for the procurement of Integrated Logistics Support.</p> <p>The contractor will quote this effort on a ceiling price basis. The ceiling price will be definitized at a later date to a Firm Fixed Price.</p> <p>See Section H.1</p> <p>(End of narrative B001)</p> <p>Scope Of Work: C.25 to C.25.7</p> <p>(End of narrative C001)</p> <p><u>Inspection and Acceptance</u></p> <p>INSPECTION: DestinationACCEPTANCE: Destination</p>		EA		\$1,398,397.00

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SECTION G - CONTRACT ADMINISTRATION DATA

LINE	PRON/		OBLG STAT/			INCREASE/DECREASE		CUMULATIVE
ITEM	AMS CD	ACRN	JOB ORD NO		PRIOR AMOUNT	AMOUNT		AMOUNT
1003AB	T112T5134K	AD	2	\$	16,807.00	\$	-15,242.00	\$ 1,565.00
1012AA	T112T5054K	AC	2	\$	0.00	\$	1,857,165.00	\$ 1,857,165.00
					NET CHANGE	\$	1,841,923.00	

SERVICE	NET CHANGE		ACCOUNTING	INCREASE/DECREASE
NAME	BY ACRN	ACCOUNTING CLASSIFICATION	STATION	AMOUNT
Marine Corps	AC	17 121319M7KE0000080200674432DC1555A00001MPRIAD3		\$ 1,857,165.00
Marine Corps	AD	17 021319M7KE00000802000674432DC1555A00001MPRIAD3		\$ -15,242.00
NET CHANGE				\$ 1,841,923.00

		PRIOR AMOUNT		INCREASE/DECREASE		CUMULATIVE
		OF AWARD		AMOUNT		OBLIG AMT
NET CHANGE FOR AWARD:	\$	4,493,168.00	\$	1,841,923.00	\$	6,335,091.00

G.1 ADMINISTRATION OF PERFORMANCE BASED PAYMENTS

G.1.1 Attachment 14, "Metric Systems Performance-Based Payments," lists the milestones and amounts to be paid upon successful completion of each milestone. They are explained below:

a. Payment. The exact amount to be paid to the contractor upon successful completion of that milestone. (Note: this is 90% of the estimate of the stage of completion. No additional withholding should be made) There will be only one payment request and payment per month. Payments may be made before the month shown if the event is successfully completed early. However, a monthly payment request may include multiple milestones if the additional milestones are ones that are completed later than originally scheduled.

b. Milestone Payment Event. The name of the event. These are not all severable events.

c. Verification. Before the Administrative Contracting Officer (ACO) concurs that the event has been successfully completed, the cognizant DCMC Program Integrator will verify successful performance through visual inspection when possible, review of contractor documents substantiating successful performance, and coordination with other DCMC offices. In some circumstances, the Program Integrator may require written verification of the completion of a milestone from the Contracting Officer's Representative in the Program Manager's Office for the LAV. The COR will respond promptly to each request for verification and will coordinate with the technical experts within the PMO as is necessary in order to provide the program integrator a complete and unequivocal verification of performance.

G.1.2 In addition to the requirements of paragraph (a) of FAR 52.232-32, the following requirements shall also apply to the form and manner of the contractor's requests for payment.

a. Identification of any event that has been successfully completed for which payment is being requested.

b. Metric Systems Corp. certification that an event has been successfully completed, signed by a Metric Systems official and concurred by the ACO.

c. The original copy of the commercial payment request with item b above will be submitted. The contractor shall not use the SF 1443, "Progress Payment Request" form, for his performance-based payment requests.

G.1.3 "Contracting Officer" as used in FAR 52.232-32 is the cognizant ACO at DCMC Birmingham. Metric Systems shall not submit performance-based payment requests directly to DFAS.

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G.1.4 Each Performance-based payment should be paid out of and the ACRN for CLIN 1012AA.

G.1.5 FAR 52.232-32 and this Special Provision in no way limit the Government's rights under the "Inspection Of Supplies- Fixed Price" and any "Warranty" Provisions of the Contract.

G.1.6 In order to protect the Government's interests and as stated in FAR 52.232-32 (e)(2), the ACO may reduce or suspend performance-based payments if performance is endangered b the contractor's failure to make progress or by an unsatisfactory financial condition. The ACO may reduce or suspend payments if he has reason to believe that the contractor is failing to make progress on any portion of the contract notwithstanding the successful completion of the events in the attachment.

G.1.7 The Contractor shall maintain the following records and controls for the administration of FAR 52.232-32:

- a. Copies of all Metric Systems certifications stating that an event has been successfully completed.
- b. Copies of all commercial payment requests submitted and records of actual payments received.
- c. Any other records and controls as may be required for the proposer administration of performance-based payments under this contract.

*** END OF NARRATIVE G 001 ***

Name of Offeror or Contractor: METRIC SYSTEMS CORPORATION

SECTION H - SPECIAL CONTRACT REQUIREMENTS

Status	Regulatory Cite	Title	Date
H-1 DELETED	52.232-16	PROGRESS PAYMENTS	MAR/2000
H-2 DELETED	252.232-7004	DOD PROGRESS PAYMENT RATES	FEB/1996
H-3 ADDED	52.232-32	PERFORMANCE-BASED PAYMENTS	MAY/1997

*** END OF NARRATIVE H 003 ***

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SECTION J - LIST OF ATTACHMENTS

List of Addenda	Title	Date	Number of Pages	Transmitted By
Attachment 004	DELETED			
Attachment 014	METRIC SYSTEMS PERFORMANCE-BASED PAYMETNTS CLIN 1012AA	09-FEB-2001		
ATTACHMENT 004	SLEP TECHNICAL MANUAL CONTRACTS REQUIREMENTS	26 Jan 2001		
(Attachment 004 is deleted and replaced with SLEP-TMCR dated 26 Jan 2001)				

*** END OF NARRATIVE J 001 ***

Attachment 4

SUBJECT: TECHNICAL MANUAL CONTRACT REQUIREMENT (TMCR) FOR REVISING LIGHT ARMORED VEHICLE (LAV) TECHNICAL MANUALS (TM) TO INCLUDE OPERATION AND MAINTENANCE OF SERVICE LIFE EXTENSION PROGRAM (SLEP) MODIFICATIONS (R&D PHASE)

1.0 SCOPE. This Technical Manual Contract Requirement (TMCR) defines requirements for the Contractor in the preparation and delivery of full-up TMs and Electronic TMs (ETM) which reflect SLEP-modified LAVs described elsewhere in this Contract. Full-up TMs are defined as current LAV TMs integrated to include SLEP lubrication, operator, troubleshooting, maintenance, electrical schematic and parts data.

2.0 DATA ITEMS. The Contractor shall deliver Data items in accordance with the Contract ELINs and the contents of this TMCR. Deliverables include:

- a. A TM plan
- b. TMs that support training and the LAV-25 DT/OT test effort.
- c. A full set of TMs for the LAV FOV that contains complete, fully integrated SLEP operator and maintenance instructions and SL-4s.

2.1 All LAV TMs will require adjustment in order to accommodate SLEP modifications.

3.0 APPLICABLE DOCUMENTS.

3.1 Government Furnished Information (GFI). The Government will provide to the Contractor at the Start of Work (SOW) meeting all applicable LAV TMs and associated data in hardcopy and in CD medium (ETM) as GFI. TMs cover the LAV-25, LAV-AT, LAV-CC, LAV-R, LAV-M, LAV-AD, LAV-L and MEWSS.

3.2 Referenced Guidances. The Contractor may use the following documents to assist in its preparation of SLEP-adjusted LAV TMs and ETMs:

MIL-PRF-28001	Performance Specification Markup Requirements And Generic Style Specification for Exchange of Text and its Presentation
MIL-PRF-38784	Manuals, Technical: General Style and Format Requirements
MIL-STD-12	Abbreviations for use on Drawings and in Specifications, Standards, and Technical Documents
MIL-STD-1840	Interface Standard Automated Interchange of Technical Information
SG-1A	U.S. Marine Corps Style Guide

4.0 REQUIREMENTS. The Contractor shall prepare and deliver the following SLEP-modified, full-up LAV TMs:

- a. -10 Operators Manuals, -12 Lubrication Instructions, -20 Organizational Maintenance Manuals, -34 Intermediate Maintenance Manuals, -50 Depot Maintenance Manual and Parts Manuals (SL-4).
- b. Technical documentation shall be written in simple, practical English. All terminology, symbols, and abbreviations shall be readily understandable by maintenance technicians. Use of abbreviations shall be held to a minimum, and shall be defined the first time they appear in the text.
- c. Contractor TM/ETM development shall ensure that the final TMs and ETMs are complete with front matter, text, tables, and illustrations. TM/ETM data shall include corrections resulting from the Logistics Reviews and any unscheduled In-Process Reviews.

4.1 TM/ETM Content/Format Organization. The Contractor shall add, adjust, and/or delete pages in the GFI manuals to:

- a. Reflect the SLEP LAV configuration.
- b. Provide narratives of LAV SLEP operation and maintenance tasks. This includes operation, lubrication, troubleshooting, electrical schematic(s) and removal/replacement and repair tasks and related maintenance data.
- c. Complete all adjustments to the SL-3, SL-4 and related data contained in the GFI TMs and ETMs to reflect LAV SLEP modifications.
- d. Ensure the LAV SLEP-adjusted TMs and ETMs retain the existing LAV TM and ETM formats. In cases where the Government guidance referenced in para 3.2 describes formatting that differs with the format of the current LAV TMs/ETMs, the Contractor shall adhere to the format of current LAV TMs and ETMs.

4.2 Procedure for Development of TMs/ETMs.

4.2.1 TM Identification and Publication Numbers. The Government will provide the Contractor with TM identification numbers and publication control numbers (PCN) at the ILS SOW meeting. The Contractor shall annotate each TM/ETM, SL-4 and related maintenance publications with the appropriate identifiers.

4.2.2 TM Plan and TM Outline. The Contractor shall prepare and submit a TM plan IAW ELIN A017. At a minimum the Contractor's plan shall include a TM outline for each variant and the Contractor's proposal for developing LAV TMs/ETMs that support the SLEP LAVs. The TM outline shall identify the proposed layout and table of contents for TMs of each variant.

4.2.3 Technical Manual Quality Assurance (QA) Program. The Contractor shall develop a QA plan to ensure that the TMs/ETMs it develops and delivers under this Contract are produced IAW the current LAV TM style and format. The QA Plan shall include Contractor support for applicable conferences, Logistical Reviews and IPRs (see paras 4.2.5 and 4.2.6).

4.2.4 Contractor Validation. The Contractor shall perform a validation of the operation and maintenance tasks and related data it develops for LAV SLEP modifications. All Contractor validation shall be performed prior to the applicable Logistics Review. Validation shall include but is not limited to the following:

- a. Contractor's engineering technical review has been completed.
- b. Information shall reflect configuration of the system/equipment and shall include all engineering changes.
- c. Procedural instructions shall be readily understandable by the intended user and be adequate to perform all operation and maintenance functions.
- d. Data shall be checked to ensure that they support the approved maintenance and support plan.

4.2.5 Government Verification. The Government will verify Contractor-developed tasks and related data during Contractor-scheduled Logistical Reviews as described in para C.15.5. The Contractor shall provide draft SL-4 pages IAW ELIN A011 and corrected TM and SL-4 pages IAW ELIN A012. The Contractor shall provide assistance and support during the Government's verification.

4.2.6 Unscheduled In-process Reviews (IPR). The Government may request up to 2 unscheduled IPRs at the Contractor site to ensure that the Contractor's TM development is IAW Contract requirements. The Contractor will host the IPR at its site NLT thirty days after Government notification. The Contractor shall provide support and access to publication materials and any source data. The Contractor shall record meeting minutes, decisions and/or discrepancies resulting from the IPRs and make the required adjustments to the TMs. The Contractor has the option to request additional IPRs if it requires assistance in developing the TMs/ETMs and maintenance data.

5.0 TM HARDCOPY DELIVERABLES. The Contractor shall deliver full up draft hardcopies of the TMs as shown below:

5.1 At the Start of DT/OT. The SLEP-adjusted TMs must, as a minimum:

- a. Provide complete directions for operating, troubleshooting, and performing preventive maintenance and removal/replacement of SLEP components.
- b. Contain SL-4 and related maintenance data that are developed in conjunction with the above operation and maintenance tasks.

QTY	Location	LAV-25 Manuals
15ea	DT/OT Training Site	-10 Operator Manual -12 Lubrication Instruction
20ea	DT/OT Training Site	* -20 Organizational Manual * -34 Intermediate Manual SL-4 Parts Manual
1ea	PM LAV AMSTA-DSA-LV-M WARREN, MI 48397-5000	Same as above
1ea	Commander, Code PSD-M2 MARCORSYSCOM	Same as above
1ea	Commander Code 835 Materiel Command (MATCOM)	Same as above

* As required in order to complete operation, preventive maintenance, troubleshooting and removal/replacement.

5.1.1 TMs for LAV Variants. The Government will coordinate with the Contractor if DT/OT is to include testing of variant(s) in addition to the LAV-25. In this case, the Contractor shall deliver adjusted TMs for the variant(s) to be tested which conform to procedures as described in TMCR paras 4 and 5. The TMs/ETMs to be adjusted may include all variants (LAV-25, LAV-AT, LAV-CC, LAV-R, LAV-M, LAV-L, LAV-AD and MEWSS).

5.2 Interim Manuals. The Contractor shall deliver completed, full up LAV TMs/ETMs and SL-4s to reflect all SLEP modifications. The Contractor shall deliver the TMs/ETMs at the end of DT/OT IAW the following distribution:

Qty	Location	Media
1ea	PM LAV AMSTA-DSA-LV-M WARREN, MI 48397-5000	-10 Operator Manual -12 Lubrication Manual -20 Organization Manual -34 Intermediate Manual -50 Depot Manual SL-4 Parts Manual
1ea	Commander, Code PSD-M2 MARCORSYSCOM	Same as above
1ea	Commander Code 835 Materiel Command (MATCOM)	Same as above

PHASE II

SUBJECT: TECHNICAL MANUAL CONTRACT REQUIREMENT (TMCR) FOR REVISING LIGHT ARMORED VEHICLE (LAV) TECHNICAL MANUALS (TM) TO INCLUDE OPERATION AND MAINTENANCE OF SERVICE LIFE EXTENSION PROGRAM (SLEP) MODIFICATIONS (PRODUCTION PHASE)

1.0 SCOPE. This Technical Manual Contract Requirement (TMCR) describes the Government's requirements for Contractor preparation and delivery of final TMs and electronic TMs (ETM). The principal Contractor activities in this phase are to:

- a. Update the SLEP TMs produced in the R&D Phase
- b. Deliver a final draft of camera-ready TMs

c. Deliver an editable SLEP ETM

2.0 DATA ITEMS. The Contractor shall deliver Data items in accordance with the Contract Statement of Work and the contents of this TMC. The deliverables include data and full-up TMs/ETMs and SL-4s in accordance with ELINs discussed below. Full up TMs are defined as Current LAV TMs integrated to include SLEP operator, troubleshooting, maintenance, electrical schematic(s), and parts data. The TMs/ETMs to be adjusted include all variants (LAV-25, LAV-AT, LAV-CC, LAV-R, LAV-M, LAV-L, LAV-AD, and MEWSS) and all echelons of maintenance.

3.0 APPLICABLE DOCUMENTS.

3.1 Government Guidance. The Contractor shall complete and finalize all SLEP-adjusted LAV TMs/ETMs in accordance with (IAW) GFI and Government guidance's that were provided to the Contractor at the ILS Start of Work meeting in the R&D phase of this Contract.

3.2 Referenced Guidances. The Contractor may use the following documents to assist in its preparation of SLEP-adjusted LAV TMs and ETMs:

MIL-PRF-28001	Performance Specification Markup Requirements And Generic Style Specification for Exchange of Text and its Presentation
MIL-PRF-38784	Manuals, Technical: General Style and Format Requirements
MIL-STD-12	Abbreviations for use on Drawings and in Specifications, Standards, and Technical Documents
MIL-STD-1840	Interface Standard Automated Interchange of Technical Information
SG-1A	U.S. Marine Corps Style Guide

4.0 REQUIREMENTS. The Contractor shall prepare and deliver the following SLEP-modified full up LAV TMs as camera-ready hardcopy and ETM:

- a. -10 Operators Manuals, -12 Lubrication Instructions, -20 Organizational Maintenance Manuals, -34 Intermediate Maintenance Manuals, -50 Depot Maintenance Manual and Parts Manuals (SL-4).
- b. Technical documentation shall be written in simple, practical English. All terminology, symbols, and abbreviations shall be readily understandable by maintenance technicians. Use of abbreviations shall be held to a minimum, and shall be defined the first time they appear in the text.

c. Contractor TM/ETM development during the Production phase shall ensure that the final TMs and ETMs delivered for PVT and LAV IOC is complete with front matter, text, tables, and illustrations. TM/ETM data shall include corrections resulting from the Logistics Reviews and any unscheduled In-Process Reviews.

4.1 TM/ETM Content/Format Organization. The Contractor shall add, adjust, and/or delete pages in the GFI manuals to:

- a. Reflect the SLEP LAV configuration.
- b. Provide narratives of LAV SLEP operation and maintenance tasks. During the Production phase of the Contract, the Contractor shall complete all operation, troubleshooting, electrical schematic(s) removal/replacement, repair and related data for all LAV variants.
- c. Complete all adjustments to the SL-4 in order to reflect LAV SLEP modifications.

d. Ensure the LAV SLEP-adjusted TMs/ETMs retain the existing LAV TM/ETM formats. In cases where the Government guidance referenced in para 3.2 describes formatting that differs with the format of the current LAV TMs/ETMs, the Contractor shall adhere to the format of current LAV TMs and ETMs.

4.2 Procedure for Development of TMs/ETMs.

4.2.1 RESERVED

4.2.2 RESERVED

4.2.3 Technical Manual Quality Assurance (QA) Program. The Contractor shall follow and/or modify the TM/ETM QA plan it developed during the R&D phase.

4.2.4 Contractor Validation. The Contractor shall perform a validation of ECP-initiated changes to operation and maintenance tasks and related data developed for LAV SLEP modifications. All Contractor validation shall be performed prior to the applicable Logistics Review. Validation shall include but is not limited to the following:

- a. Completion of the Contractor's engineering technical review.
- b. Information shall reflect configuration of the system/equipment and shall include all engineering changes.
- c. Procedural instructions shall be readily understandable by the intended user and be adequate to perform all operation and maintenance functions.
- d. Data shall be checked to ensure that they support the approved maintenance and support plan.
- e. The Contractor shall use hardware of the proper configuration in performing its validation.

4.2.5 Government Verification. The Government will verify Contractor-validated tasks and related data during Logistical Reviews as described in para C.25.5. The Contractor shall provide draft SL-4 pages IAW CDRL B010 and corrected TM and SL-4 pages IAW CDRL B011. The Contractor shall provide assistance and support during the Government's verification.

4.2.6 Unscheduled In-process Reviews (IPR). The Government may request up to 2 unscheduled IPRs to ensure that the Contractor's TM development is IAW Contract requirements. The Contractor will host the IPR at its site NLT 30 days after Government notification. The Contractor shall provide support and access to publication materials and any source data. The Contractor has the option to request additional IPRs if it requires assistance in developing TM and maintenance data. The Contractor shall record meeting minutes, decisions and/or discrepancies resulting from the IPRs and make the required adjustments to the TMs/ETMs and related maintenance data.

4.2.7 Publication Date. The Government will provide the publication date to the Contractor prior to the delivery of final manuals. The Contractor shall annotate this publication date on each set of LAV TMs/ETMs.

5.0 TM DISTRIBUTION. At the commencement of SLEP PVT, the Contractor shall deliver completed, full-up LAV TMs/ETMs and SL-4s to reflect all SLEP modifications. The Contractor shall deliver the TMs/ETMs IAW the following distribution:

5.1 TM Hardcopy Deliverables for PVT. The Contractor shall deliver full-up hardcopies of LAV-25 SLEP TMs at the start of training for product verification testing (PVT) (See Section E). The Contractor shall deliver final hardcopies of TMs IAW the following:

QTY	Location	LAV-25 Manuals
12ea	PVT Training Site	-10 Operator Manual -12 Lubrication Instruction
15ea	PVT Training Site	-20 Organizational Manual -34 Intermediate Manual SL-4 Parts Manual

5.1.1 TMs for LAV Variants. The Government will provide the Contractor a one year advance notice if PVT is to include testing of variant(s) in addition to the LAV-25. In this case, the Contractor shall deliver copies of adjusted TMs for the variant(s) to be tested which conform to procedures as described in paras 4 and 5 in the quantities set forth in 5.1.

5.2 Final Manuals. At the start of PVT the Contractor shall deliver completed, full up LAV TMs/ETMs and SL-4s, for all variants affected by SLEP, to reflect all SLEP modifications. The Contractor shall deliver the TMs/ETMs IAW the following distribution:

Qty	Location	Media
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1ea Commander, Camera Ready Copy
 Code 826 Printing Section
 Materiel Command (MATCOM)

1ea PM LAV CD ROM
 AMSTA-DSA-LV-M

1ea Commander, CD ROM
 Code PSD-M2
 MARCORSYSCOM

1ea Commander CD ROM
 Code 826 Printing Section
 Materiel Command (MATCOM)

5.2.1 CD-ROM. At the start of PVT, the Contractor shall deliver to the organization, shown below, one master CD-ROM with an editable file extension which can be used by the Government to make future TM/ETM adjustments. The TMs/ETMs to be included include all variants (LAV-25, LAV-AT, LAV-CC, LAV-R, LAV-M, LAV-L, LAV-AD and MEWSS) and all echelons of maintenance:

1ea Commander CD-ROM, Editable Delivery.
 Code 826 Printing Section
 Marine Corps Logistics Base
 Albany GA 31704-1128

2ea Code PSD-M2
 MARCORSYSCOM
 2033 Barnett Ave, Suite 315
 Quantico, VA 22134-5010